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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/025,133	02/17/1998	KOJI FUKUNAGA	862.2136	9220

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EXAMINER

ELAMIN, ABDELMONIEM I

ART UNIT PAPER NUMBER

2116

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/025,133

Applicant(s)

FUKUNAGA ET AL.

Examiner

A Elamin

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 May 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 2,4-11,13,15,16,18,20,21 and 23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2,4-11,13,15,16,18,20,21 and 23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 5/28/2005
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 2, 4, 7-11,13, 15-16, 18, 20-21 and 23 are rejected under 35 U.S.C. 102(e) as being anticipated by Edem et al, US. Pat. No. 5,687,174.

3. Claims 2, 4, 10-11,13, 15, 18, 20 and 23, Edem teaches a data transmission method for host and target devices, connected by a serial bus [*Title, abstract*], said method comprising the steps of:

performing bi-directional communication by using an initial protocol between the host and target devices [*col. 2, lines 22-24, 44-58, col. 13, lines 9-13*]; and

selectively setting a data transfer method to be performed from a plurality of data transfer methods including a synchronous transfer method, which performs flow control, asynchronous transfer method by using the bi-directional communication [*col. 2, lines 23-28*];

wherein the data transfer method is set by the host device in accordance with a data transfer method set in the target device, and the plurality of data transfer methods include a PULL model, in which the target device reads data from the host device, a response model, in which a response is returned in unit of block transfer, a simplified response model, in which a response of the response model is to simplify, a PUSH model, in which the host device writes

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data into the target device, and an isochronous model, which uses an isochronous transfer [*col. 4, lines 46 thru col. 5, line 13*].

4. Claims 7-9, 16 and 21, Edem teaches said host device provides image data [*col. 1, lines 50-52*].

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edem et al, US. Pat. No. 5,687,174.

7. Claim 5, Edem fails to teach the serial bus is based on IEEE 1394 standards.

8. Official Notice is taken that both the concept and the advantages of IEEE 1394 bus system is old and well known in the art.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Edem to have the serial bus being based on an IEEE 1394 standard, because it provides a high-speed inexpensive serial bus architecture which supports both asynchronous and isochronous format data transfers, thereby providing a universal input/output connection for interconnecting digital devices including, for example, audio-visual equipment and personal computers.

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9. Claim 6, Edem fails to teach a USB bus.
10. Official Notice is taken that both the concept and the advantages of USB bus is old and well known and in the art.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teaching of Edem to include a USB bus, because of its convenience, low cost, simplicity, expandability and support for data exchange between a host computer and a wide range of simultaneously accessible peripherals, and capability of operating at a transmission rate faster than conventional serial links (*because USB connectors employ a two signal deferential communication scheme*).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A Elamin whose telephone number is (571) 272-3674. The examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

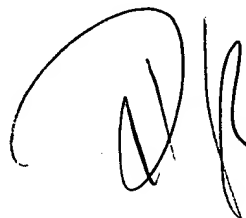
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A Elamin  
Primary Examiner  
Art Unit 2116

June 8, 2005



**A. ELAMIN**  
**PRIMARY EXAMINER**